

Production of Fruit Pulp.

*Mango Pulp, Guava Pulp,
Pomegranate Pulp, Papaya
Pulp Manufacturing
Project.*

Fruit Processing Plant.




Introduction

Pulp can either mean the soft, moist part of a fruit or is a technical term from the fruit industry. Pulp is a mass of pressed fresh fruit or vegetable matter and not meant for immediate consumption. Pulp is mushy but can contain fruit parts or sometimes even whole fruits.

Pulp is used for the production of jams, marmalades, jellies, sweets, drinks and fillings of baked goods. For preservation pulp can be treated with formic acid, sorbic acid or sulphuric acid. For short-time preservation pulp is sometimes frozen.

Fruit Pulp is processed fruit products which are useful in the preparation of various food, beverages, cosmetics and other products. The production of Fruit Pulp requires extraction of juice with the crushing of membranes of the fruit which contains juice and then processing it to make it a thick paste. Fruit Pulps helps in maintaining the underlying basis for organic agriculture and interaction of the ecological effects of the inputs into our food supply. Fruit Pulps retains most of the nutrients of fruit and thus preferred in various food and beverage products. Fruit pulp consists of more fiber due to the presence of crushed membrane of the fruit and hence is more beneficial as compared to juice concentrate. However, fruit pulp carries an intense flavor of the fruit which limits its use in the beverage industry.



Growing demand for fruit pulp in baby food and organic food products to boost revenue growth of the global fruit pulp market

Main factors driving increasing adoption of fruit pulp across the globe. The shelf life of fruit pulp is longer than fresh fruit. Frozen or chilled fruit pulp retains all the vitamins, minerals, and proteins obtained after processing the pulp. A longer storage life without much alteration to the natural content and flavor is a main factor boosting global market demand for fruit pulp.



A longer shelf life also means reduced transportation and storage costs, and this factor encourages manufacturers to increase production of fruit pulp. Also, fruit pulp possesses the same properties (taste, texture, flavor, color) as fresh fruit – in fact, fruit pulp imparts an enhanced color and taste to the finished product. This is another main factor driving the demand for fruit pulp in the global market. Pulp/puree is used as a sweetener in various food products such as snacks, juices, yogurt, and baby food, and also in ready-to-drink smoothies. Food producers are moving towards producing fruit pulp based food products owing to the enhanced properties of fruit pulp. This factor is also fueling revenue growth of the global fruit pulp market.

Global Fruit Pulp Market Value, By Fruit Family Type, 2017 (US\$ Mn)



A growing demand for super fruits has been observed in some parts of Europe. Several processors of fruits are developing new fruit pulp products made from super fruits. Also, in some countries of the Asia Pacific, fruit extracts in the form of pulp and puree are being witnessed in great demand across multiple applications. The global demand for fruit pulp from manufacturers of fruit based beverages has increased over the years, owing to the growing use of fruit pulp in beverages to enhance the taste and flavor. All these factors are acting in favor of the global fruit pulp market and boosting both global market demand and subsequently revenue generation.

Consumers prefer a smooth texture globally, and hence the application of fruit pulp is confined to developing countries. A wide range of fruit juice made from fruit pulp is present in emerging markets such as China, India, Indonesia, the Philippines, etc. Also, a significant range is available in Developed regions which are not widely accepted in developed countries due to strong taste and thick texture of fruit pulp. The fruit pulp is widely used in North America and Western Europe in bakery industry due to its features. In other regions, Fruit Pulp consumption is limited.

Fruit Pulp market will face a surge in demand as many food producing companies started focusing on Organic foods. Fruit pulp has a longer shelf life than the fruit itself due to which Fruit Pulp market is expected to grow during the forecast period.

Fruit Pulp market has an opportunity to replace raw fruit consumption due to changing food preferences. Fruit Pulp market can be segmented on the basis of type which includes mango, strawberry, apple, guava, citrus fruit, berries, grape and others (pear, kiwi fruit, passion fruit, etc.).



The Fruit Pulp market can be segmented on the basis of form which includes liquid and powder. The Fruit Pulp market can be segmented on the basis of form which includes brine, syrup and water. Fruit Pulp market can also be segmented on the basis of the application which includes Food (bakery and confectionary, dairy and condiments, desserts and others (concentrate, etc.)), Beverage (Juice and Others (Cocktails, mocktails, etc.))



Mango

Mango pulp is used as a major food ingredient in the making of mango juice, nectars, juice blends, dairy, bakery, baby food manufacturing, ice-creams etc. However, in recent years the popularity of mango has spread to the western markets with consumers showing interest in the taste. The US juice industry and fresh market has shown consistent interest in both fresh mango and its processed products. The US juice industry has been making more and more use of mango pulp in its orange juice blends.

Mango Pulp is prepared from selected varieties of Fresh Mango Fruit. Fully matured Mangoes are harvested, quickly transported to the fruit processing plant, inspected and washed. Selected high quality fruits go to the controlled ripening chambers; Fully Ripened Mango fruits are then washed, blanched, pulped, deseeded, centrifuged, homogenized, concentrated when required, thermally processed and aseptically filled maintaining sterility. The preparation process includes cutting, de-stoning, refining and packing.



In case of aseptic product the pulp is sterilized and packed in aseptic bags. The refined pulp is also packed in cans, hermetically sealed and retorted. Frozen pulp is pasteurized and deep-frozen in plate freezers. The process ensures that the natural flavour and aroma of the fruit is retained in the final product.

Mango Pulp/Concentrate is perfectly suited for conversion to juices, nectars, drinks, jams, fruit cheese and various other kinds of beverages. It can also be used in puddings, bakery fillings, fruit meals for children and flavours for food industry, and also to make the most delicious ice creams, yoghurt and confectionery.

India is also a major exporter of Mango Pulp in the world. The country has exported 1, 35,621.22 MT of Mango Pulp to the world for the worth of Rs. 864.97 crores / 129.29 USD Millions during the year 2016-17.

Fruit pulp industry is having great demand in India as well as having export market. India is the home of mango fruit. A large number of varieties are found in almost all parts of the country.



Guava

Guava Puree is produced from fresh highest quality guava fruits, maintaining commercial sterility. The Guava pulp obtained is pure and creamy white in texture, assuring highest quality standards. The selected white guava fruit is then processed hygienically through cold extractor grinding, followed by an enzymatic deactivation, evaporation and sterilization.

Guava Pulp is made from select variety of white and pink Guavas, ripened under controlled atmospheric conditions. The preparation process includes washing, cutting, de-stoning, refining and packing.

In case of aseptic packing the pulp is sterilized and packed in aseptic bags. The refined pulp is also packed in cans, hermetically sealed and retorted. Frozen pulp is pasteurized and deep-frozen in plate freezers. The process ensures that the natural flavour and aroma of the fruit is retained in the final product.

There is a growing demand of Guava pulp in local and international markets. Guava pulps are important value added products having demand in both local and export markets. The local market of fruit juices, nectars and drinks has been growing at a very high rate during the past five years. Consequently, the demand for fruit pulps has also increased during this period.

Papaya

Papaya (Carica papaya) is a tropical fruit having commercial importance because of its high nutritive and medicinal value. Papaya cultivation had its origin in South Mexico and Costa Rica. Total annual world production is estimated at 6 million tonnes of fruits. India leads the world in papaya production with an annual output of about 3 million tonnes. Other leading producers are Brazil, Mexico, Nigeria, Indonesia, China, Peru, Thailand and Philippines.



The market demand for tropical fruits has been growing steadily over the past two decades. Global production of tropical fruits (excluding bananas) reached 73.02 million (M) metric tonnes (t) in 2010. Gaining in popularity worldwide, papaya is now ranked third with 11.22 Mt, or 15.36 percent of the total tropical fruit production, behind mango with 38.6 Mt (52.86%) and pineapple with 19.41 Mt (26.58%). Global papaya production has grown significantly over the last few years, mainly as a result of increased production in India. Papaya has become an important agricultural export for developing countries, where export revenues of the fruit provide a livelihood for thousands of people, especially in Asia and Latin America. Papaya exports contribute to the growing supply of healthy food products on international markets.

Pomegranate


Global demand is good for Indian pomegranates, especially in the German and Dutch markets, where they are known for good quality. An Indian trader attributes this to having the edge over other producing countries when it comes to keeping up on investments in production technology, along with more experience.

Pomegranates include hundreds of ruby-red edible seeds. The seeds, called arils, are surrounded by a sack filled with a tartly sweet juice. Mashing a pomegranate into pulp removes the juice for drinking or for use as a cooking ingredient. A single pomegranate can provide as much as a half cup of juice when mashed effectively.

Benefits of Pomegranate Pulp:

- **Protect Blood Vessels**
- **Protect Lowering of Blood Pressure**
- **Prevent Thickening of Arterial Walls**
- **Inhibit the growth of Diseases Causing Bacteria**

Maharashtra is the leading producer of pomegranate followed by Karnataka, Andhra Pradesh, Gujarat and Tamil Nadu. Ganesh, Bhagwa, Ruby, Arakta and Mridula are the different varieties of pomegranates produced in Maharashtra. In India, pomegranate is commercially cultivated in Solapur, Sangli, Nasik, Ahmednagar, Pune, Dhule, Aurangabad, Satara, Osmanabad and Latur districts of Maharashtra; Bijapur, Belgaum and Bagalkot districts of Karnataka and to a smaller extent in Gujarat, Andhra Pradesh and Tamil Nadu.



The total production of pomegranate is concentrated mainly in the Western Maharashtra, Karnataka, Gujarat, Andhra Pradesh, Tamil Nadu and Rajasthan in India. Maharashtra is the leading State with 82 thousands hactor area under pomegranate cultivation, followed by Karnataka and Gujarat with 13.6 thousand ha and 5.8 thousand ha respectively, Andhra Pradesh and Tamil Nadu stood at fourth and fifth position with. 2.8 And 0.5 thousand ha of pomegranate cultivation in India.

The Indian pomegranate production is growing by 20 to 25% every year. Demand is on the rise, both at domestic level and in the export market. India is the only country able to deliver pomegranates all year round thanks to its climate. The best-known variety in India is the Bhagwa, a huge sweet variety of really good quality. India is a big player and exports to destinations in Europe, the Middle East and Asia. The country is also expecting to enter the U.S. market. India competes with various players in the world, but it manages to stand out with unique varieties. The trend in India is convenience; pomegranates are widely appreciated and the seeds are really popular amongst consumers.

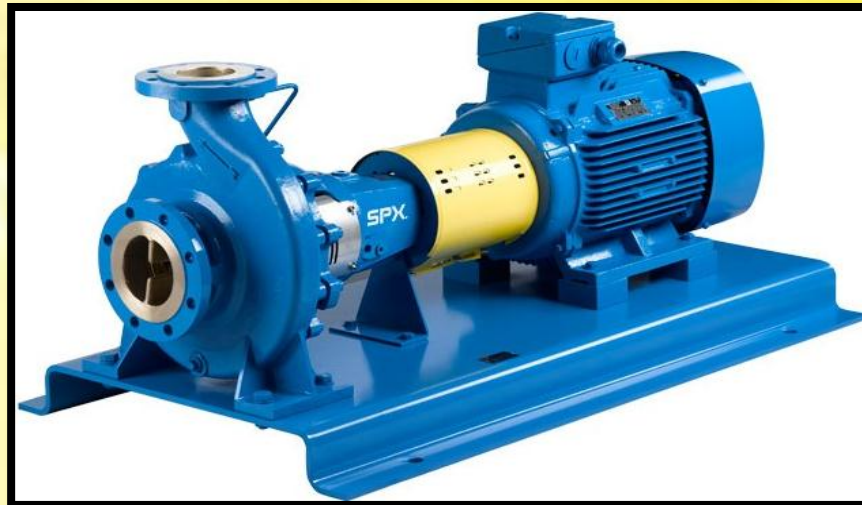
Machinery Photographs



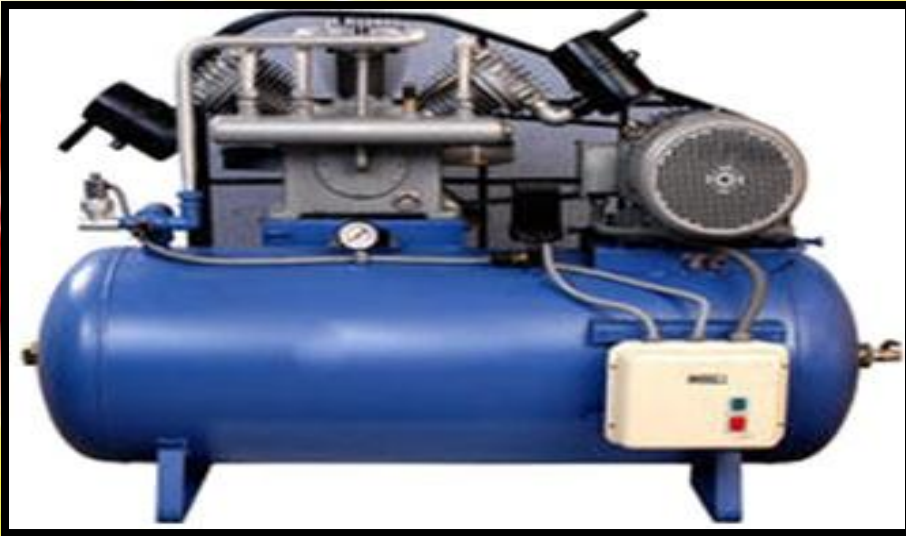
FRUIT WASHING MACHINE



FRUIT MILL/CRUSHER



TRANSFER PUMP TO HOMOGINISER



AIR COMPRESSOR



SUGAR SYRUP TRANSFER PUMP



PULP PACKING MACHINE



Few Indian Major Players are as under

- **Canfruit Export India Ltd.**
- **Capricorn Food Products India Ltd.**
- **Enkay Texofood Industries Ltd.**
- **Fortune Foods Ltd.**
- **Navaras Food Products Ltd**
- **Tricom Fruit Products Ltd.**

Project at a Glance

PROJECT AT A GLANCE

(` in lacs)

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	27.00	27.00	Capital	0.00	94.71	94.71
Buildings	0.00	158.50	158.50	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	65.53	65.53	Other Type Share			
Motor Vehicles	0.00	8.00	8.00	Capital	0.00	0.00	0.00
Office Automation Equipments	0.00	50.00	50.00	Reserves & Surplus	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	2.50	2.50	Cash Subsidy	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Internal Cash Accruals	0.00	0.00	0.00
Preliminary & Pre-operative Exp	0.00	2.50	2.50	Long/Medium Term Borrowings	0.00	284.12	284.12
Provision for Contingencies	0.00	6.50	6.50	Debentures / Bonds	0.00	0.00	0.00
Margin Money - Working Capital	0.00	58.29	58.29	Unsecured Loans/Deposits	0.00	0.00	0.00
TOTAL	0.00	378.83	378.83	TOTAL	0.00	378.83	378.83

Project at a Glance

Year	Annualised		Book Value	Debt	Divide nd	Retained Earnings		Payou t	Probab le Market Price	P/E Ratio	Yield Price/ Book Value
	EPS	CEPS	Per Share		Per Share	Per Share		%		No.of Times	%
1-2	4.60	8.10	14.60	24.00	0.00	100.00	4.60	0.00	4.60	1.00	0.00
2-3	8.32	11.41	22.92	18.00	0.00	100.00	8.32	0.00	8.32	1.00	0.00
3-4	11.92	14.65	34.84	12.00	0.00	100.00	11.92	0.00	11.92	1.00	0.00
4-5	15.30	17.72	50.14	6.00	0.00	100.00	15.30	0.00	15.30	1.00	0.00
5-6	18.42	20.56	68.56	0.00	0.00	100.00	18.42	0.00	18.42	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.22	1.22		1.64	1.64	3.95	7.82%	2.63%	1.78%	556.56	22.74%	3.59	1.06	
2-3	1.63	1.42		0.79	0.79	2.48	8.91%	4.27%	2.76%	649.18	22.73%	3.79	1.17	
3-4	2.10	1.63	2.08	0.34	0.34	1.61	9.64%	5.43%	3.46%	741.91	22.73%	3.79	1.33	
4-5	2.63	1.84		0.12	0.12	1.11	10.12%	6.22%	3.95%	834.65	22.73%	3.67	1.50	
5-6	3.26	2.08		0.00	0.00	0.80	10.43%	6.76%	4.28%	927.38	22.73%	3.49	1.88	

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	68.07%
Total BEP (% of Installed Capacity)	70.26%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	28.35%
Payback Period of the Project is (In Years)	2 Years 4 Months
Fixed Assets Coverage Ratio (No. of times)	20.617



Major Queries/Questions Answered in the Report?

- 1. What is Fruit Pulp Manufacturing industry ?**
- 2. How has the Fruit Pulp Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Fruit Pulp Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Fruit Pulp Manufacturing plant ?**

- 5. What is the structure of the Fruit Pulp Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Fruit Pulp Manufacturing Business?**
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A collage of various fruits including a strawberry, kiwi, apple, and orange slices, set against a light yellow background.

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Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Fruit Pulp ” provides an insight into Fruit Pulp market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Fruit Pulp project. The report assesses the market sizing and growth of the Indian Fruit Pulp Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Fruit Pulp sector in India along with its business prospects. Through this report we have identified Fruit Pulp project as a lucrative investment avenue.

Tags

Fruit Pulp Processing Plant, Fruit Pulp Processing, Fruit Pulp Production, Fruit Processing Unit, Project Report on Production of Mango Pulp, Fruit Pulp Manufacturing Business, Fruit Pulp Processing Unit, Start a Mango Pulp Extraction Unit, Mango Pulp Processing Industry, Project Report on Mango Pulp Processing, Mango Pulp Processing Plant, How Mango Pulp is Processing? Fruit Pulp Manufacturing Project, Fruit Pulp Processing Industry, Production of Fruit Pulp, Fruit Pulp Production Plant, How to Start Pulp Production, Profitable Fruit Pulp Processing Business Ideas & Opportunities, How to Start Fruit Pulp Production Business, Fruit Pulp Processing Business, Commercial Processing of Mango Pulp, Mango Pulp Manufacture, Mango Pulp Manufacturing Process, Guava Pulp Manufacture, Guava Pulping, How to Make Guava Pulp, Guava Pulp Manufacturing Process, Production of Guava Pulp, Fruit Pulping Unit, How to Start Guava Pulp Production, Pomegranate Pulp Processing Plant, Mango Processing, Mango Processing Plant, Commercial Processing of Mangoes, Mango Processing Industry,

How to Process Mangoes, Guava Processing Plant, processing of Guava, Pomegranate Processing, Pomegranates Processing Plant, Pomegranate Pulp Processing, Pomegranate Pulp Production, Pomegranate Processing Unit, Project Report on Production of Pomegranate Pulp, Pomegranate Pulp Manufacturing Business, Pomegranate Pulp Processing Unit, Start a Pomegranate Pulp Extraction Unit, Fruit Processing, Fruit Pulp Processing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Fruit Pulp Processing Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Fruit Pulp Processing Industry in India, Fruit Pulp Processing Projects, New project profile on Fruit Pulp Processing industries, Project Report on Mango Pulp Manufacturing Industry, Detailed Project Report on Pomegranate Pulp Production, Project Report on Pomegranate Pulp Production, Pre-Investment Feasibility Study on Guava Pulp Production, Techno-Economic feasibility study on Pomegranate Pulp Production, Feasibility report on Pomegranate Pulp Production, Free Project Profile on Guava Pulp Production, Project profile on Mango Pulp Manufacturing, Download free project profile on Guava Pulp Production

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Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Contact us

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